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APPLICATION NO.	FILING DATE	FIRST NAMED INVENTOR	ATTORNEY DOCKET NO.	CONFIRMATION NO.
10/777,142	02/13/2004	Shigeo Ide	107156-00229	3787

7590 09/29/2005

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EXAMINER

AL NAZER, LEITH A

ART UNIT	PAPER NUMBER
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2821

DATE MAILED: 09/29/2005

Please find below and/or attached an Office communication concerning this application or proceeding.

# Office Action Summary

Application No.

10/777,142

Applicant(s)

IDE ET AL.

Examiner

Leith A. Al-Nazer

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*(Handwritten initials)*

-- The MAILING DATE of this communication appears on the cover sheet with the correspondence address --

## Period for Reply

A SHORTENED STATUTORY PERIOD FOR REPLY IS SET TO EXPIRE 3 MONTH(S) OR THIRTY (30) DAYS, WHICHEVER IS LONGER, FROM THE MAILING DATE OF THIS COMMUNICATION.

- Extensions of time may be available under the provisions of 37 CFR 1.136(a). In no event, however, may a reply be timely filed after SIX (6) MONTHS from the mailing date of this communication.
- If NO period for reply is specified above, the maximum statutory period will apply and will expire SIX (6) MONTHS from the mailing date of this communication.
- Failure to reply within the set or extended period for reply will, by statute, cause the application to become ABANDONED (35 U.S.C. § 133). Any reply received by the Office later than three months after the mailing date of this communication, even if timely filed, may reduce any earned patent term adjustment. See 37 CFR 1.704(b).

## Status

- 1) ☒ Responsive to communication(s) filed on 15 September 2005.
- 2a) ☒ This action is **FINAL**. 2b) ☐ This action is non-final.
- 3) ☐ Since this application is in condition for allowance except for formal matters, prosecution as to the merits is closed in accordance with the practice under *Ex parte Quayle*, 1935 C.D. 11, 453 O.G. 213.

## Disposition of Claims

- 4) ☒ Claim(s) 1-8 is/are pending in the application.
- 4a) Of the above claim(s) \_\_\_\_\_ is/are withdrawn from consideration.
- 5) ☐ Claim(s) \_\_\_\_\_ is/are allowed.
- 6) ☒ Claim(s) 1-8 is/are rejected.
- 7) ☐ Claim(s) \_\_\_\_\_ is/are objected to.
- 8) ☐ Claim(s) \_\_\_\_\_ are subject to restriction and/or election requirement.

## Application Papers

- 9) ☐ The specification is objected to by the Examiner.
- 10) ☒ The drawing(s) filed on 13 February 2004 is/are: a) ☒ accepted or b) ☐ objected to by the Examiner.  
Applicant may not request that any objection to the drawing(s) be held in abeyance. See 37 CFR 1.85(a).  
Replacement drawing sheet(s) including the correction is required if the drawing(s) is objected to. See 37 CFR 1.121(d).
- 11) ☐ The oath or declaration is objected to by the Examiner. Note the attached Office Action or form PTO-152.

## Priority under 35 U.S.C. § 119

- 12) ☒ Acknowledgment is made of a claim for foreign priority under 35 U.S.C. § 119(a)-(d) or (f).
- a) ☒ All b) ☐ Some \* c) ☐ None of:
1. ☒ Certified copies of the priority documents have been received.
2. ☐ Certified copies of the priority documents have been received in Application No. \_\_\_\_\_.
3. ☐ Copies of the certified copies of the priority documents have been received in this National Stage application from the International Bureau (PCT Rule 17.2(a)).

\* See the attached detailed Office action for a list of the certified copies not received.

## Attachment(s)

- 1) ☒ Notice of References Cited (PTO-892)
- 2) ☐ Notice of Draftsperson's Patent Drawing Review (PTO-948)
- 3) ☐ Information Disclosure Statement(s) (PTO-1449 or PTO/SB/08)  
Paper No(s)/Mail Date \_\_\_\_\_.
- 4) ☐ Interview Summary (PTO-413)  
Paper No(s)/Mail Date. \_\_\_\_\_.
- 5) ☐ Notice of Informal Patent Application (PTO-152)
- 6) ☐ Other: \_\_\_\_\_.

## DETAILED ACTION

### ***Claim Rejections - 35 USC § 102***

1. The following is a quotation of the appropriate paragraphs of 35 U.S.C. 102 that form the basis for the rejections under this section made in this Office action:

A person shall be entitled to a patent unless –

(b) the invention was patented or described in a printed publication in this or a foreign country or in public use or on sale in this country, more than one year prior to the date of application for patent in the United States.

2. Claims 1-8 are rejected under 35 U.S.C. 102(b) as being anticipated by U.S. Patent Application Publication No. 2001/0033355 to Hagiwara.

With respect to claims 1 and 2, Hagiwara teaches a flat panel type display apparatus including a display section main body (300) having a plurality of display electrodes (15 and 25) arranged thereon and a tape carrier package (paragraphs 0053 and 0054) connected to the display electrodes, wherein one end of the display section main body is formed with i) a first terminal group (group between reference number 94 in figure 1) connected to the plurality of display electrodes (25), ii) a second terminal group (94) adjacent to the first terminal group, iii) a third terminal group (80) electrically connected to the second terminal group through wiring patterns (figure 1), wherein a connection end of the tape carrier package (70; paragraphs 0053 and 0054) is connected to the first terminal group and the second terminal group, while a flat cable (8) for external wiring is connected with the third terminal group.

With respect to claim 3, Hagiwara teaches the first and second terminal groups being collected in a predetermined area at one end of the display section main body

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(figure 1), the connection end of the tape carrier package (70; paragraphs 0053 and 0054) being connected through one operation to the first and second terminal groups formed and collected in the predetermined area.

With respect to claim 4, Hagiwara teaches the first and second terminal groups being formed by being arranged in one column (figure 1) in the predetermined area at one end of the display section main body.

With respect to claim 5, Hagiwara teaches the tape carrier package being formed having connecting terminal groups to be connected to the first and second terminal groups located in a connecting terminal section, and an electronic device (7) being connected between the connecting terminal group to be connected to the first terminal group and the connecting terminal group to be connected to the second terminal group.

With respect to claim 6, Hagiwara teaches the electronic device being an integrated circuit device (7) for supplying an electric power for display to the plurality of display electrodes.

With respect to claim 7, Hagiwara teaches the flat cable being connected between a circuit board and the third terminal group (figure 3).

With respect to claim 8, Hagiwara teaches an interval between the first, second terminal groups and the third terminal group being larger than a length of the tape carrier package (figure 3).

***Response to Arguments***

3. Applicant's arguments filed 15 September 2005 have been fully considered but they are not persuasive.

Applicant argues that independent claim 1 of the present application requires that the third terminal group be connected with the second terminal group through wiring patterns. Applicant argues that the second and third terminal groups of Hagiwara are connected only through a single wire, which is not a wiring pattern. Examiner disagrees. Hagiwara teaches various wiring patterns in at least figures 1, 2, 4, 5, and 7. Furthermore, even if Hagiwara only taught a single wire connection, the single wire connection would qualify as a wiring pattern since a single wire connection, although simple, is still a type of wiring pattern. Applicant further argues that the Examiner fails to find that Hagiwara's IC mounting region 70 is directly and completely connected with the wiring pattern of the substrate 20, while the tape carrier package of Applicant's independent claim 1 is connected to the wiring pattern of the substrate only through its connection end. Examiner is unsure of the substance of the argument Applicant is attempting to make. However, figure 4 of Hagiwara shows connections 71 and 73 on both ends of the tape carrier package, and figure 5 of the present application shows an identical setup with connections at both ends of the tape carrier package.

***Conclusion***

4. **THIS ACTION IS MADE FINAL.** Applicant is reminded of the extension of time policy as set forth in 37 CFR 1.136(a).

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A shortened statutory period for reply to this final action is set to expire THREE MONTHS from the mailing date of this action. In the event a first reply is filed within TWO MONTHS of the mailing date of this final action and the advisory action is not mailed until after the end of the THREE-MONTH shortened statutory period, then the shortened statutory period will expire on the date the advisory action is mailed, and any extension fee pursuant to 37 CFR 1.136(a) will be calculated from the mailing date of the advisory action. In no event, however, will the statutory period for reply expire later than SIX MONTHS from the mailing date of this final action.

***Communication Information***


Any inquiry concerning this communication or earlier communications from the examiner should be directed to Leith A. Al-Nazer whose telephone number is 571-272-1938. The examiner can normally be reached on Monday-Friday, 7:30-4:00.

If attempts to reach the examiner by telephone are unsuccessful, the examiner's supervisor, Don Wong can be reached on 571-272-1834. The fax phone number for the organization where this application or proceeding is assigned is 571-273-8300.

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Information regarding the status of an application may be obtained from the Patent Application Information Retrieval (PAIR) system. Status information for published applications may be obtained from either Private PAIR or Public PAIR. Status information for unpublished applications is available through Private PAIR only. For more information about the PAIR system, see <http://pair-direct.uspto.gov>. Should you have questions on access to the Private PAIR system, contact the Electronic Business Center (EBC) at 866-217-9197 (toll-free).

LA



WILSON LEE  
PRIMARY EXAMINER